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NEET SOME BASIC CONCEPTS OF CHEMISTRY — PERCENTAGE COMPOSITION, EMPIRICAL FORMULA AND MOLECULAR FORMULA — PYQS

Max. Marks: 20 **Questions:** 5

Section A (MCQ) — 5 questions

Q.1 A compound X contains 32% of A, 20% of B and remaining percentage of C. Then, the empirical formula of X is :
(Given atomic masses of A=64 ; B=40 ; C=32 u)
[NEET (UG) 2024]
(1) A_2BC_2 (2) ABC_3 (3) AB_2C_2 (4) ABC_4

Scan or tap for the full solution

Q.2 An organic compound contains 78% (by wt.) carbon and remaining percentage of hydrogen. The right option for the empirical formula of this compound is : [Atomic wt. of C is 12, H is 1]
[NEET (UG) 2021]
(1) CH_4 (2) CH (3) CH_2 (4) CH_3

Scan or tap for the full solution

Q.3 An organic compound contains carbon, hydrogen and oxygen. Its elemental analysis gave C, 38.71% and H, 9.67%. The empirical formula of the compound would be [AIPMT 2008]
(1) CHO (2) CH_4O (3) CH_3O (4) CH_2O

Scan or tap for the full solution

Q.4 The percentage of C, H and N in an organic compound are 40%, 13.3% and 46.7% respectively then empirical formula is [AIPMT 2002]
(1) $C_3H_{13}N_3$ (2) CH_2N (3) CH_4N (4) CH_6N

Scan or tap for the full solution

Q.5 Percentage of Se in peroxidase anhydrous enzyme is 0.5% by weight (at. wt. = 78.4), then the minimum molecular weight of peroxidase anhydrous enzyme is [AIPMT 2001]
(1) 1.568×10^4 (2) 1.568×10^3
(3) 15.68 (4) 2.136×10^4

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2	3	4	5						
Ans.	2	4	3	3	1						